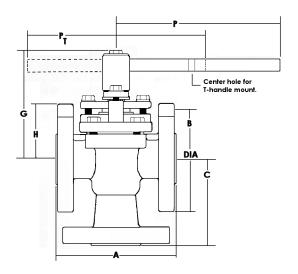


# 3-WAY SLEEVED PLUG VALVES

1/2"- 12"

# models V032 & V332

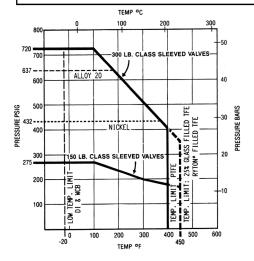


## DIMENSIONS and WEIGHTS

SIZE in. mm	150 lb 300 lb		Flange No. Siz	e B.C.	A	В	С	G	н	Р	P	Wei	
1/2 50	V032	in.	A	2.375	4-1/4	3-1/2	2-3/4	4-9/16	1-15/16	8	8-1/2	Ь	10
		mm	<sup>4</sup> 16	60	108	89	70	116	49	203	216	kg	4.54
	V332	in.	A	2.625	4-1/2	3-3/4	3	4-9/16	2-1/16	8	8-1/2	lb	13
		mm	16	67	114	95	76	116	52	203	216	kg	5.9
3/4 20	V032	in.	4 .625	2.750	4-5/8	3-7/8	2-7/8	4-9/16	2-1/8	8	8-1/2	b	11
		mm	16	70	117	98	73	116	54	203	216	kg	5
	V332	in.	A .750	3.250	6	4-5/8	3-1/8	4-9/16	2-3/8	8	8-1/2	lb	15
		mm	<sup>1</sup> 19	83	152	117	79	116	60	203	216	kg	6.8
	V032	in.	4 .625	3.125	5	5-1/4	3-1/2	4-11/16	2-1/4	8	8-1/2	b	12.5
1	V U32	mm	7 16	79	127	133	89	119	57	203	216	kg	5.7
25	V332	in.	A .750	3.500	6-1/2	4-7/8	3-3/4	4-11/16	2-9/16	8	8-1/2	b	17
	V JUE	mm	19	89	165	124	95	119	65	203	216	kg	7.7
	V032	in.	A .625	3.875	6-1/2	5	4-1/8	6-5/16	2-3/4	14	14-7/8	b	22.5
1-1/2		mm	16	98	165	127	105	135	70	356	378	kg	10.2
40	V332	in.	A .875	4.500	7-1/2	6-1/8	4-1/16	6-5/16	3-1/4	14	14-7/8	lb	32
		mm	22	114	191	156	103	135	83	356	378	kg	14.5
	V032	in.	A .750	4.750	7	6	4-1/2	6-5/8	3-1/8	14	14-7/8	b	30
2		mm	19	121	178	152	114	168	79	356	378	kg	13.6
50	V332	in.	g .750	5.000	8-1/2	6-1/2	4-13/16	6-5/8	3-3/8	14	14-7/8	b	39
		mm	19	127	216	165	122	168	86	356	378	kg	17.7
	V032	in.	4 .750	6.000	8	7-1/2	5-1/8	7-1/4	3-3/4	23	23-7/8	b	47
3		mm	19	152	203	190	130	184	95	584	606	kg	21.3
80	V332	in.	g .875	6.625	11-1/8	8-1/4	5-9/16	7-1/4	4-1/8	23	23-7/8	lb	65
		mm	22	168	283	209	141	184	105	584	606	kg	29.5
-	V032	in.	g .750	7.500	9	9	6	6-9/16*	4-1/2	24**	25**	lb	71+
4 100		mm	19	190	229	229	152	167°	114	609**	635**	kg	32.2+
	V332	in.	g .875	7.875	12	10	7-1/8	6-5/16°	5	24**	25**	lb	108+
		mm	22	200	305	254	181	160°	127	609**	635**	kg	49+
6 150	V032	in.	g .875	9.500	10-1/2	11	7-1/2	7-5/16°	5-1/2	**	**	lb	128+
		mm	22	241	266	279	190	186°	140	**	**	kg	58+
	V332	in.	12.875	10.625	15-7/8	12-1/2	8-1/2	7-5/16°	6-1/4	**	**	lb	200+
		mm	22	270	403	318	216	186*	159	**	**	kg	91+

- G measured to the top of the plug shaft.
- Gear operator recommended for 4" size and larger.
- Valve only. Add 38 lb. for gear operator.

PRESSURE-TEMPERATURE RATINGS							
MODEL	CLASS	RATING					
V032	150 LB.	180 PSI@400° F.					
		10 BARS - 203°C					
V332	300 LB.	400 PSI@400° F.					
		21 BARS - 204°C					
1							



#### SERVICE RECOMMENDATIONS

Chem-Plug® V-ring top seal sleeved 3-way valves have been designed for those applications where the seal around the valve stem must be adjustable. With a choice of four different plug designs and 90° and 180° rotation, these vqlves can be specified in eleven different flow patterns.

Multiport Chem-Plug® valves can offer absolute safety in systems where similtaneous opening or closing of multiple valvesmight create hazardous or expensiive contamination of fluids.

#### **FEATURES**

Chem-Plug® models V032 and V332 valves are designed for 150 lb. ANSI and 300 lb. ANSI specifications respectively for temperatires ranging from -20°F to 400°F. The mulitdirectinal flow allows more latitude in design and installation of piping systems. The V032 and V332 valves have a true stuffing box for top seal packing and gland adjustments to reduce leakage by the stem to zero when properly adjusted and maintained. Chem-Plug® sleeved valves with V-ring top seals areadjusted at the factory to hold one and a half times the rated pressure of the valve.

Packing can be adjusted to compensate for normal wear. Like all Chem-Plug® valves, the plug can be adjusted seperately from the top seal so that the packing does not have to be readjusted.

The packing can be serviced or replaced without removing the valve form the line.

The solid sleeve is compression molded in virgin PTFE and then sintered. Ryton is also available. This metod provides optimum density which minimizes chemical

Raised sealing rings are cast 360° around the ports for positive in-line sealing. Blow-out lips are cast adjacent to the ports to prevent sleeve rotation and reduce sleeve cold flow

The plug is grounded through the thrust washerand plug adjuster.

All flanged Chem-Plug® valves meet the face-to-face specifications of API 6D (short pattern), API gate valve standard, ANSI B16.10, and ANSI B16.34.

### **OPERATORS**

Wrench operators are standard on all sizes through 3": manual gear operators are recommended for 4" and 6" sizes. Cast mounting pads are provided on the flanges for rigid mounting of pneumatic, hydraulic, and electric actuators. The pads can be drilled and tapped when specified

## TESTING

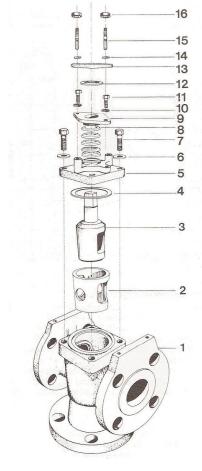
Each Chem-Plug® valve is tested for seat leakage according to API Standard 598.





# chem-pluge models V032 & V332

# **BILL OF MATERIALS**



PART NO.	PART	CARBON STEEL	OTHER ALLOYS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	BODY SLEEVE PLUG COVER GASKET COVER LOCK WASHER COVER BOLT V-RING PACKING PACKING GLAND LOCK WASHER GLAND SCREW THRUST DISC PLUG ADJUSTER LOCK WASHER ADJUSTER STUD HEX NUT	WCB PTFE D.I./ ENP PTFE D.I.A. 395 STEEL B7 STEEL B7 STEEL B7 STEEL STEEL STEEL STEEL STAINLESS STEEL D.I.A. 395 STEEL STAINLESS STEEL D.I.A. 395 STEEL STEEL STEEL STEEL STEEL	AS SPECIFIED PTFE AS SPECIFIED STAINLESS STEEL AS SPECIFIED STAINLESS STEEL AS SPECIFIED STAINLESS STEEL AS SPECIFIED STAINLESS STEEL AS SPECIFIED STAINLESS STEEL

### MODEL NUMBER CODES

### MATERIAL CODES

**SPECIAL FEATURES** 

ANSI Class PORTS DESIGN an END CON		AL PLUG MATERIAL	SLEEVE MATERIAL	OPERATORS	FEATURES
	M = CD4MCU Q = Hastelloy I R = Hastelloy C X = Nickel Y = Inconel S = Special	L = SS, CF8M M = CD4MCU N = Alloy 20 P = Monel	F = PTFE R = Ryton* U = UHMWPE T = Glass filled TFE S = Special	0 = None 1 = Wrench 2 = Gear, Manual 3 = Electric 4 = Pneumatic 5 = Hydraulic 6 = Special 7 = Wrench with locking device 8 = Gear with locking device 9 = Gear with chain wheel	O = None DT = Drilled, Tapped for actuators CH = Chlorine prepared OX = Oxygen prepared FS = Grafoil top seal Fire safe (V series) EP = Epoxy coated X = Other (specify)**

Give a complete, accurate description of the special feature when ordering. Ryton is a Phillips Petroleum Trademark

# **Example of Ordering Code:**

### V032-JLF1-0

This is an example of a V-ring top seal, 150Lb. ANSI, 3 Way, flanged end, sleeved plug valve with a carbon steel body, stainless steel plug, PTFE sleeve, wrench operator, and no special features

